



United Way of Long Island

Net Positive All Electric Home | Deer Park, NY | UnitedWayLI.org



"[Zero Energy Ready Home] is the best solution for our type of housing we produce." *United Way of Long Island*



PROJECT DATA

- **Layout:** 5 bdrm, 2 bath, 2 fls, 2,500 ft²
- **Climate:** IECC 4A, mixed-humid
- **Completed:** June 2020
- **Category:** Affordable Multifamily

MODELED PERFORMANCE DATA

- **HERS Index:** without PV 37; with PV -2
- **Annual Energy Costs:** without PV \$5,300; with PV \$0
- **Annual Energy Cost Savings:** (vs typical new homes) without PV \$2,200; with PV \$5,250
- **Annual Energy Savings:** without PV 11,300 kWh; with PV 17,000 kWh
- **Savings in the First 30 Years:** without PV \$91,100; with PV \$218,800

KEY FEATURES

- **Walls:** 2x6, 24" o.c., R-33 total: 51-1/8" graphite EPS foam topped by 1/2" OSB, textured house wrap, spruce and engineered wood siding and trim.
- **Roof:** Truss gable roof: coated taped 5/8" OSB sheathing, ice & water shield fiberglass composite shingles, standing seam metal roof.
- **Attic:** Vented attic: 14" R-50 blown-in fiberglass flat, 18" R-65 blown-in fiberglass in vaulted roof, trusses incorporate mechanical chase insulated to R-50 with 3" spray foam and R-30 batt.
- **Foundation:** Insulated basement: 8" concrete walls. Elastomeric water proofing, 2" graphite EPS.
- **Windows:** Thin triple-pane, argon-filled, low-e2, vinyl, casement style, U=0.18, SHGC=0.22.
- **Air Sealing:** 1.7 ACH 50.
- **Ventilation:** ERV separately ducted, indoor air quality sensor. MERV 13 filters. Dehumidifier.
- **HVAC:** Ducted and ductless mini-split heat pumps, 9.6 HSPF, 15.5 SEER.
- **Hot Water:** Heat pump water heater, 3.7 UEF, 80-gal. central manifold and PEX piping.
- **Lighting:** 100% LED with motion sensors. Daylighting with interior windows.
- **Appliances:** ENERGY STAR refrigerator, dishwasher, and clothes washer.
- **Solar:** 9.2 kW rooftop panels.
- **Water Conservation:** EPA WaterSense fixtures and toilets, drip irrigation, driveway.
- **Energy Management System:** Smart thermostat is Wi-Fi and voice controlled.
- **Other:** Accessibility features. All paint is low/no VOC, CARB compliant wood.

CONTACT

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